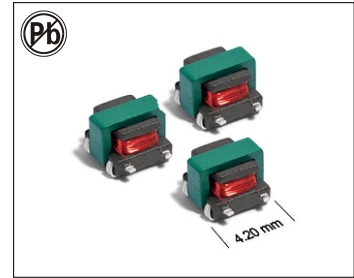


Current Sense Transformer

ACSTE4.2 SERIES



FEATURES:

- AEC-Q200 Grade 1 (40°C to +125°C)
- Miniature SMT design, only 4.5 × 4.8mm footprint
- 500Vrms, one minute isolation (hipot) between windings
- Designed for use up to 1MHz and above to sense continuous currents to 7 Amps

APPLICATIONS:

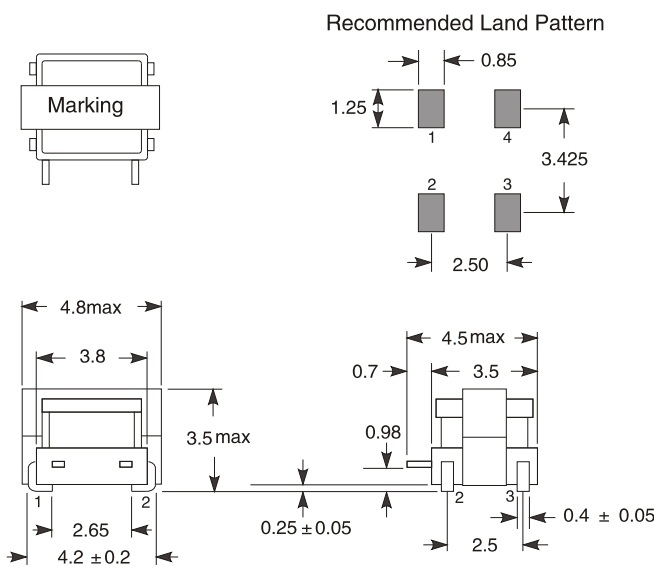
- Switching power supplies
- Feedback control
- Overload sensing
- Load drop/Shut down detection

ELECTRICAL SPECIFICATIONS:

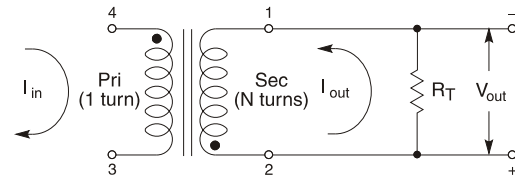
Part No.	Turns ratio	Ls (uH, Min) 100KHz, 0.1V	Rp (Ω, Max)	Rs (Ω, Max)	Sensed Current (A)	Frequency range (KHz)	Volt-time product (Vusec)	Rt (Ω)
ACSTE4.2-200	1:20	33	0.003	0.35	7	83-1000	6	2.9
ACSTE4.2-300	1:30	74	0.003	0.9	7	56-1000	9	4.3
ACSTE4.2-400	1:40	132	0.003	1.6	7	42-1000	12	5.7
ACSTE4.2-500	1:50	205	0.003	2.5	7	33-1000	15	7.1
ACSTE4.2-600	1:60	295	0.003	3.6	7	28-1000	18	8.6
ACSTE4.2-700	1:70	400	0.003	4.6	7	24-1000	21	10
ACSTE4.2-101	1:100	820	0.003	9.5	7	17-1000	30	14.3
ACSTE4.2-121	1:125	1280	0.003	13.0	7	13-1000	37.5	17.9
ACSTE4.2-151	1:150	1800	0.003	21.0	7	11-1000	45	21.4

MECHANICAL:

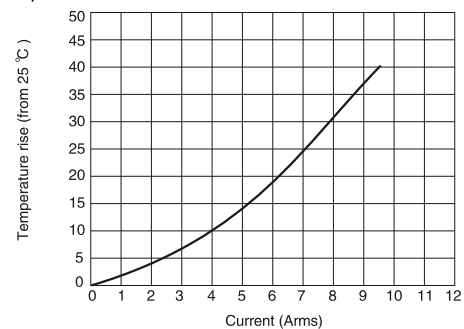
Unit:mm



Schematic



Temperature Rise vs Current



NOTES

- 1.Primary current of 7 A causes less than 25°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- 2.Ambient temperature 40°C to +125°C
- 3.Maximum part temperature +165°C (ambient + temp rise)
- 4.Storage temperature Component: 40°C to +165°C
Tape and reel Packaging: 40°C to +80°C
- 5.Inductance measured between secondary pins at 100kHz, 0.1 Vrms, 0 Adc
- 6.Electrical specifications at 25°C
- 7.Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- 8.DCR measured on Chroma 16502 micro-ohmmeter or equivalent

Specifications subject to change without notice